WISCONSIN ENERGY CORP

Form 4

February 24, 2010

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB Number: 3235-0287

Estimated average

Expires:

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

January 31, 2005

Form 4 or Form 5 obligations may continue.

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

burden hours per response... 0.5

OMB APPROVAL

See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * LEVERETT ALLEN L	2. Issuer Name and Ticker or Trading Symbol WISCONSIN ENERGY CORP [WEC]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) (First) (Middle) 231 WEST MICHIGAN STREET	3. Date of Earliest Transaction (Month/Day/Year) 02/22/2010	Director 10% Owner Officer (give title below) below) Executive VP & CFO		
(Street)	4. If Amendment, Date Original Filed(Month/Day/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person		
MILWAUKEE, WI 53203		Form filed by More than One Reporting Person		

(City)	(State)	^(Zip) Tabl	e I - Non-D	Derivative S	Securi	ities Acqu	ired, Disposed of,	or Beneficiall	y Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8) (A) or		5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock	02/22/2010		M	25,000	A	\$ 29.13	34,543.2487 (1)	D	
Common Stock	02/22/2010		S	25,000	D	\$ 49.75	9,543.2487 (1)	D	
Common Stock							1,189.459 (2)	I	ERSP

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactio Code (Instr. 8)	TransactionDerivative Code Securities		orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4,		6. Date Exercisab Expiration Date (Month/Day/Year		7. Title and A Underlying S (Instr. 3 and 4	ecurities
				Code V	(A) ((D)	Date Exercisable	Expiration Date	Title	Amount or Number of Share		
Stock Option (Right to Buy)	\$ 29.13	02/22/2010		M	25	5,000	12/31/2004(3)	07/01/2013	Common Stock	25,000		

Reporting Owners

Reporting Owner Name / Address	Relationships
reporting owner rame, mairess	

Director 10% Owner Officer Other

LEVERETT ALLEN L 231 WEST MICHIGAN STREET MILWAUKEE, WI 53203

Executive VP & CFO

Signatures

/s/ Joshua M. Erickson, as Attorney-in-Fact

02/24/2010 Date

**Signature of Reporting Person

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Includes shares acquired pursuant to a dividend reinvestment feature of Wisconsin Energy Corporation's Stock Plus Investment Plan in transactions exempt from Section 16 pursuant to Rule 16a-11.
- Includes shares acquired under Wisconsin Energy Corporation's Employee Retirement Savings Plan (ERSP) in transactions exempt from Section 16(b) pursuant to Rule 16b-3(c) and exempt from reporting pursuant to Rule 16a-3(f)(1)(i)(B). The number of shares in the ERSP attributable to any one participant varies with the price of the Common Stock. The information in this report is based on a plan statement dated as of January 31, 2010.
- (3) By action of the Compensation Committee on December 28, 2004, all options granted to employees of the Issuer, including the reporting person, in 2002, 2003 and 2004, and not otherwise exercisable, became exercisable as of December 31, 2004.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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